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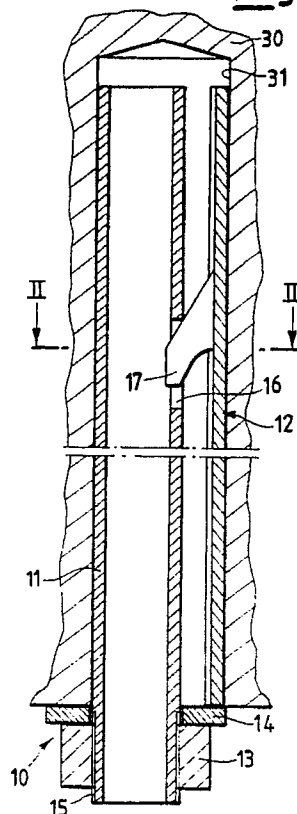
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(54) Anchoring device for supporting excavations in rock.

(57) Anchoring device (10) for supporting excavations in rock constituted by a hollow screw-threaded tube (11) with which a nut (13) and a plate (14) are associated, and a section bar (12) provided with teeth (17) which are suitable for entering a plurality of openings (16) provided on the surface of the same tube; the section bar (12) is free to perform movements which shift it towards said tube, and, inversely, away from it, when the nut (13) with the plate (14) is respectively tightened (screwed down) or released (unscrewed).

**Fig.1**



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## EUROPEAN SEARCH REPORT

Application Number

EP 90 20 1086

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-2 903 938 (STRAND) * Column 1, line 60 - column 2, line 41; figures * -- --	1	E 21 D 21/00
A	FR-A-2 552 502 (HILTI) * Abstract; figures * -- --	1	
A	US-A-4 811 785 (WEBER) * Claim 1; figures 1-6 * -- -- -- --	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E 21 D E 21 B E 21 C F 16 B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 05 December 90	Examiner RAMELMANN J.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention</div> <div>E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- &amp; : member of the same patent family, corresponding document</div>			